

Appln No. 10/649,874
Amdt date April 15, 2008
Reply to Office action of January 15, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, wherein the display means is further adapted to display music to be performed that is divided into plural units, each unit including a predetermined size of musical tone information of the music to be performed, the apparatus comprising:

a unit designating means for designating ~~[[a]]~~ at least one unit from the plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information, and

a performance instruction information generating means for generating a performance instruction information that is displayed on the display means with the designated at least one unit based on the musical tone information of the at least one unit which is designated by the unit designating means.

2. (Original) The musical performance self-training apparatus according to claim 1, further comprises a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means, wherein

the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next.

3. (Previously Presented) A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

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a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means, wherein

the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next, and wherein

the lesson menu having the units which are provided to include wider range of musical tone information, as the skill level becomes higher, is displayed according to the skill level corresponding to the score, and

the unit designating means designates a unit to be played at the earliest timing, in which performance thereof has not reached a predetermined acceptable standard, of the units on the lesson menu, as a unit of which performance instruction is to be displayed next, and when performance of all units in the same skill level has reached the acceptable standard, the unit of which performance instruction is to be displayed next is selected from units in the upper ranking skill level than the current skill level and designated.

4. (Previously Presented) A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means, wherein

the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next, and wherein

the lesson menu having the units which are provided to include wider range of musical tone information, as the skill level becomes higher, are displayed according to the skill level corresponding to the score, and

the unit designating means designates a unit to be played at the earliest timing, in which performance thereof has not reached a predetermined acceptable standard, of the units on the lesson menu, as a unit of which performance instruction is to be displayed next, and when performance of all units in the lower-ranking skill level included in a unit of the higher ranking skill level has reached the acceptable standard, the higher ranking unit is designated as the unit of which performance instruction is to be displayed next.

5. (Previously Presented) The musical performance self-training apparatus according to claim 2, wherein

the unit designating means being constructed so as to be able to operate selectively in an automatic mode in which designation of the unit is automatically performed according to predetermined progress, or in a manual mode in which an optional unit can be designated by manual operation.

6. (Previously Presented) The musical performance self-training apparatus according to claim 5, wherein

the image information which is generated by the lesson menu generator further includes an image information of a mode selection switch for selecting the automatic-mode or manual mode, and

the automatic-mode or manual mode is selected by the mode selection switch displayed on the display.

7. (Original) The musical performance self-training apparatus according to claim 6, comprising lesson interruption means for allowing the lesson menu to be displayed in place of display of performance instruction for selection of the manual mode, while the performance instruction is given in the auto-mode.

8. (Previously Presented) A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means, wherein

the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next, wherein the display means separately displays a trained unit and a unit whose note information is to be displayed next, at the time of displaying the lesson menu.

9. (Previously Presented) A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

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a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means, wherein

the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next, wherein the display means separately displays unit which come up to a evaluation standard and unit which does not come up to the evaluation standard, at the time of displaying the lesson menu.

10. (Original) The musical performance self-training apparatus according to claim 8, comprising result processing means which evaluates the performance result of the designated unit, and the display means displays the evaluation in the trained unit, at the time of displaying the lesson menu.

11. (Previously Presented) The musical performance self-training apparatus according to claims 1, 2, or 5, wherein units having the same content are managed collectively as the same unit.

12. (Previously Presented) The musical performance self-training apparatus according to claim 2 or 5, comprising means for changing the size of the unit displayed in the lesson menu by giving an instruction input through the lesson menu.

13. (Currently Amended) A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, wherein the display means is further adapted to display music to be performed that is divided into plural units, each unit including a predetermined size of musical tone information of the music to be performed, the apparatus comprising:

a unit designating means for designating ~~[[a]]~~ at least one unit from the plural units; ~~the units constitute a music to be performed and each unit includes a predetermined size of musical tone information, and~~

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a performance instruction information generating means for generating a performance instruction information that is displayed on the display means with the designated at least one unit based on the musical tone information of the at least one unit which is designated by the unit designating means; and

a musical performance judgment apparatus for evaluating musical performance, wherein the judgment apparatus further ~~comprising~~comprises:

a performance result storage means for storing information relating to performance timing as a result of musical performance;

a judgment means for comparing the information relating to the performance timing with the information relating to the performance timing included in the performance instruction and detecting the difference between these; and

an evaluation means for evaluating the performance, corresponding to the difference detected by the judgment means.

14. (Original) The musical performance self-training apparatus according to claim 13, wherein a plurality of items are stored in the performance result storage means for each played note, as the information relating to the performance timing, and

the evaluation means extracts the items evaluated best of the plurality of items with respect to all played notes, to evaluate the musical performance according to the mean value thereof.

15. (Previously Presented) The musical performance self-training apparatus according to claim 13, wherein the information relating to the performance timing includes key-on time, key-off time, gate time and step time.

16. (Original) The musical performance self-training apparatus according to claim 15, wherein the information relating to the performance timing further includes a value of ratio between the actual performance time and the performance time instructed by the performance instruction.

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17. (Currently Amended) ~~The musical performance self-training apparatus according to claim 14,~~

A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

a musical performance judgment apparatus for evaluating musical performance, wherein the judgment apparatus further comprises:

a performance result storage means for storing information relating to performance timing as a result of musical performance;

a judgment means for comparing the information relating to the performance timing with the information relating to the performance timing included in the performance instruction and detecting the difference between these; and

an evaluation means for evaluating the performance, corresponding to the difference detected by the judgment means,

wherein a plurality of items are stored in the performance result storage means for each played note, as the information relating to the performance timing, and

the evaluation means extracts the items evaluated best of the plurality of items with respect to all played notes, to evaluate the musical performance according to the mean value thereof, and

wherein the evaluation of the musical performance is the evaluation for each information of a plurality of items relating to the performance timing, and

the musical performance judgment apparatus further comprises means for graphically displaying evaluation for each of the information comprehensively.

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18. (Original) The musical performance self-training apparatus according to claim 17, wherein the graphic displayed evaluation is displayed on one displayed image together with the performance instruction display.

Claims 19-31 (Cancelled).

32. (Currently Amended) The musical performance self-training apparatus according to claim 13, further ~~comprises~~comprising a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means, wherein the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next.

33. (Previously Presented) The musical performance self-training apparatus according to claim 32, wherein a plurality of items are stored in the performance result storage means for each played note, as the information relating to the performance timing, and the evaluation means extracts the items evaluated best of the plurality of items with respect to all played notes, to evaluate the musical performance according to the mean value thereof.

34. (Previously Presented) The musical performance self-training apparatus according to claim 33, wherein the information relating to the performance timing includes key-on time, key-off time, gate time and step time.

35. (Previously Presented) The musical performance self-training apparatus according to claim 34, wherein the information relating to the performance timing further includes a value of ratio between the actual performance time and the performance time instructed by the performance instruction.

36. (Currently Amended) ~~The musical performance self-training apparatus according to claim 33,~~

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A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

a musical performance judgment apparatus for evaluating musical performance, wherein the judgment apparatus further comprises:

a performance result storage means for storing information relating to performance timing as a result of musical performance;

a judgment means for comparing the information relating to the performance timing with the information relating to the performance timing included in the performance instruction and detecting the difference between these; and

an evaluation means for evaluating the performance, corresponding to the difference detected by the judgment means,

wherein the musical performance self-training apparatus further comprises a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means,

wherein the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next,

wherein a plurality of items are stored in the performance result storage means for each played note, as the information relating to the performance timing, and

the evaluation means extracts the items evaluated best of the plurality of items with respect to all played notes, to evaluate the musical performance according to the mean value thereof, and

wherein the evaluation of the musical performance is the evaluation for each information of a plurality of items relating to the performance timing, and

the musical performance judgment apparatus further comprises means for graphically displaying evaluation for each of the information comprehensively.

37. (Previously Presented) The musical performance self-training apparatus according to claim 36, wherein the graphic displayed evaluation is displayed on one displayed image together with the performance instruction display.

38. (Previously Presented) The musical performance self-training apparatus according to claim 32, wherein

the unit designating means being constructed so as to be able to operate selectively in an automatic mode in which designation of the unit is automatically performed according to predetermined progress, or in a manual mode in which an optional unit can be designated by manual operation.

39. (Previously Presented) The musical performance self-training apparatus according to claim 38, wherein a plurality of items are stored in the performance result storage means for each played note, as the information relating to the performance timing, and

the evaluation means extracts the items evaluated best of the plurality of items with respect to all played notes, to evaluate the musical performance according to the mean value thereof.

40. (Previously Presented) The musical performance self-training apparatus according to claim 38, wherein the information relating to the performance timing includes key-on time, key-off time, gate time and step time.

41. (Previously Presented) The musical performance self-training apparatus according to claim 40, wherein the information relating to the performance timing further includes a value

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of ratio between the actual performance time and the performance time instructed by the performance instruction.

42. (Currently Amended) ~~The musical performance self-training apparatus according to claim 39,~~

A musical performance self-training apparatus for supporting a player by displaying a performance instruction information on a display means, comprising:

a unit designating means for designating a unit from plural units, the units constitute a music to be performed and each unit includes a predetermined size of musical tone information;

a performance instruction information generating means for generating a performance instruction information based on the musical tone information of the unit which is designated by the unit designating means; and

a musical performance judgment apparatus for evaluating musical performance, wherein the judgment apparatus further comprises:

a performance result storage means for storing information relating to performance timing as a result of musical performance;

a judgment means for comparing the information relating to the performance timing with the information relating to the performance timing included in the performance instruction and detecting the difference between these; and

an evaluation means for evaluating the performance, corresponding to the difference detected by the judgment means,

wherein the musical performance self-training apparatus further comprises a lesson menu generating means for generating an image information of a lesson menu which has a score of the music to be played and the units corresponding to the score, then output the image information to the display means,

wherein the unit designating means designates a unit automatically, which unit corresponding to the score of the performance instruction information to be displayed next,

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wherein the unit designating means being constructed so as to be able to operate selectively in an automatic mode in which designation of the unit is automatically performed according to predetermined progress, or in a manual mode in which an optional unit can be designated by manual operation,

wherein a plurality of items are stored in the performance result storage means for each played note, as the information relating to the performance timing, and

the evaluation means extracts the items evaluated best of the plurality of items with respect to all played notes, to evaluate the musical performance according to the mean value thereof, and

wherein the evaluation of the musical performance is the evaluation for each information of a plurality of items relating to the performance timing, and

the musical performance judgment apparatus further comprises means for graphically displaying evaluation for each of the information comprehensively.

43. (Previously Presented) The musical performance self-training apparatus according to claim 42, wherein the graphic displayed evaluation is displayed on one displayed image together with the performance instruction display.